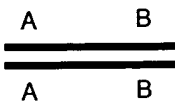

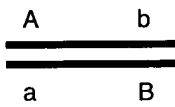
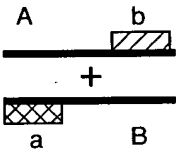
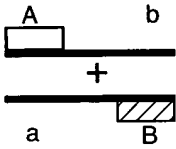
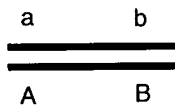
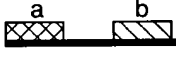

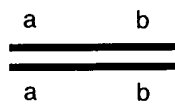
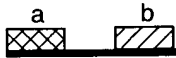
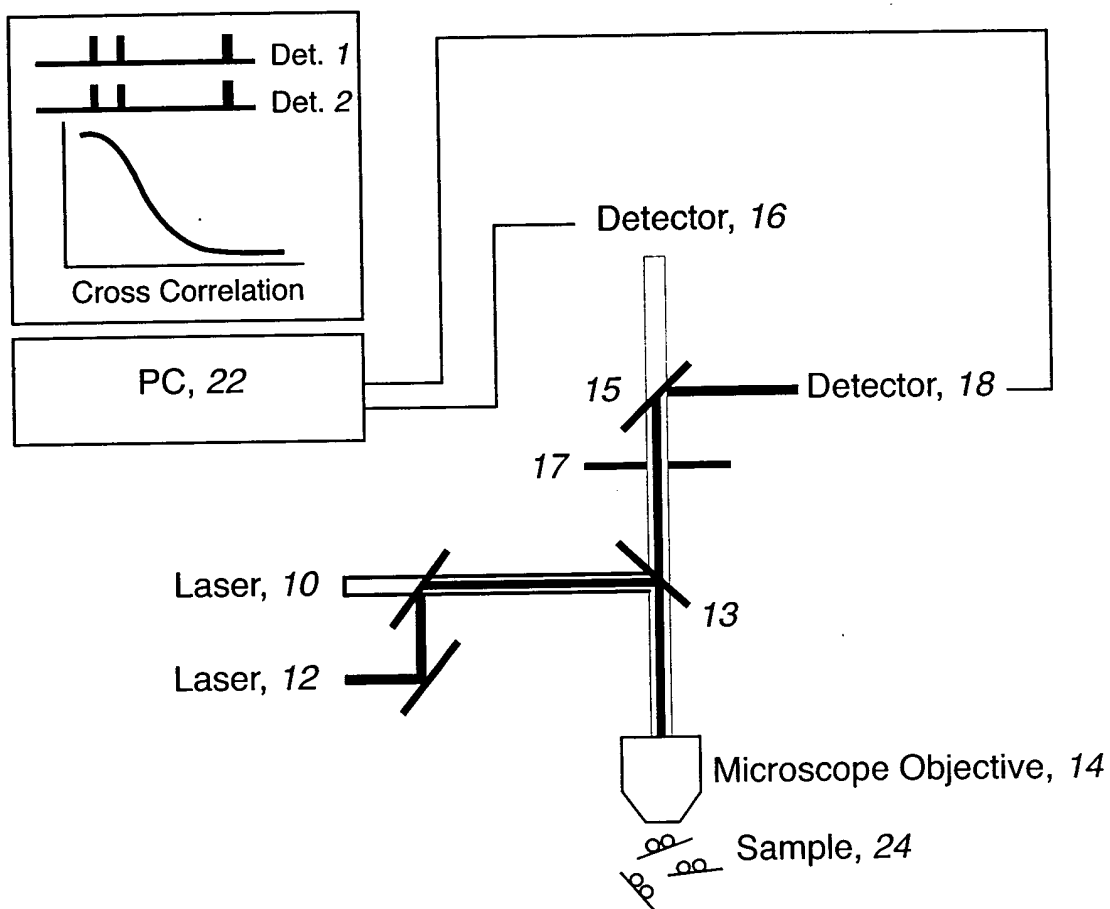


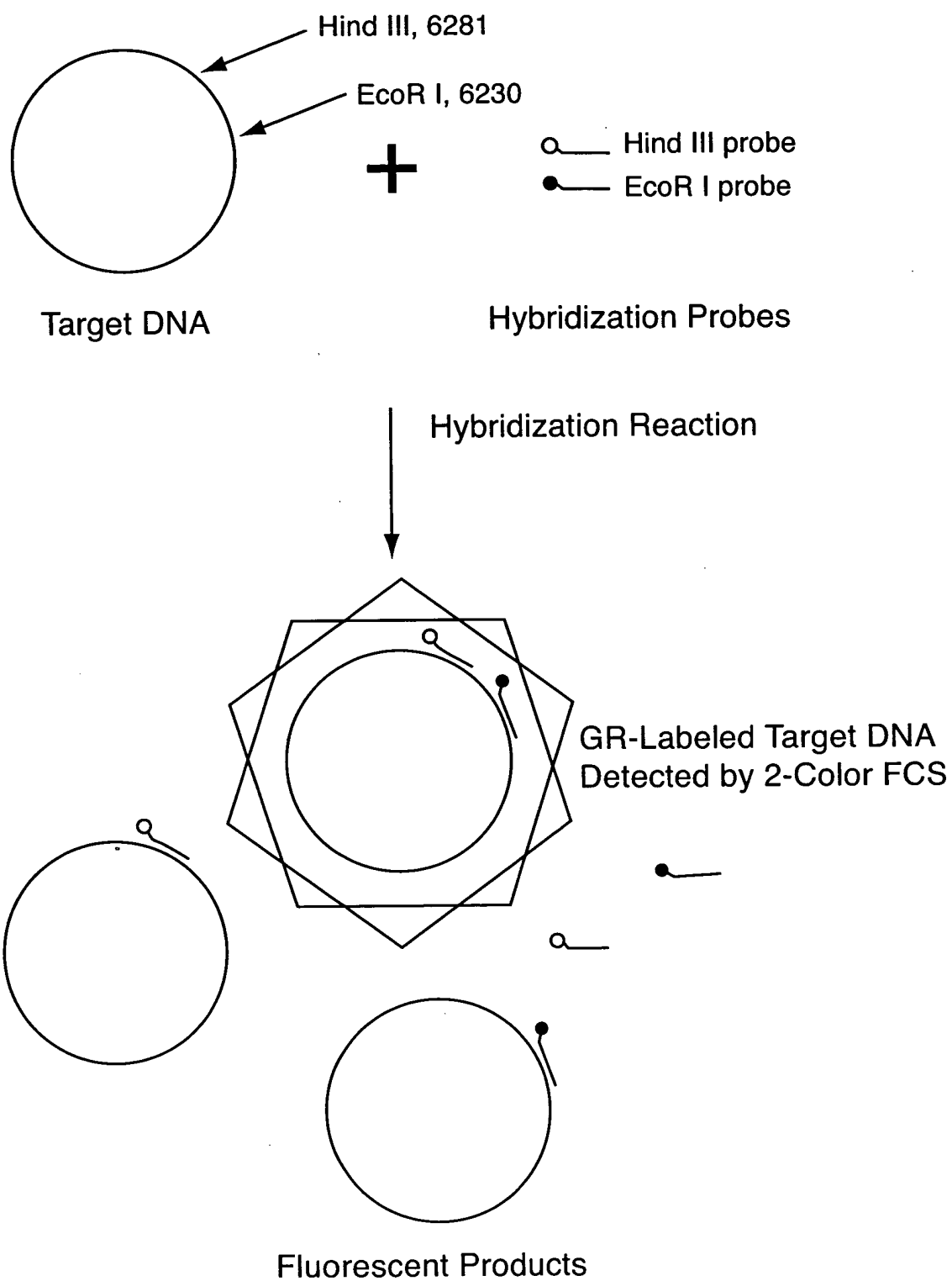
## Haploid Genotyping by Two-Color, Single-Molecule Detection

Mutation	Genotype	Two-Color Probes for Mutant	Two-Color Probes for Wild Type	Two-Color Correlation Result, Mutant/Wild Type
wild type		-	 Correlated Two-Color	-/+
two mutations separated on two chromosomes, heterozygote		 +	 +	-/-
two mutations on one chromosome, the second chromosome intact, heterozygote		 Correlated Two-Color	 Correlated Two-Color	+/+
two mutations on one chromosome, homozygote		 Correlated Two-Color	-	+/-

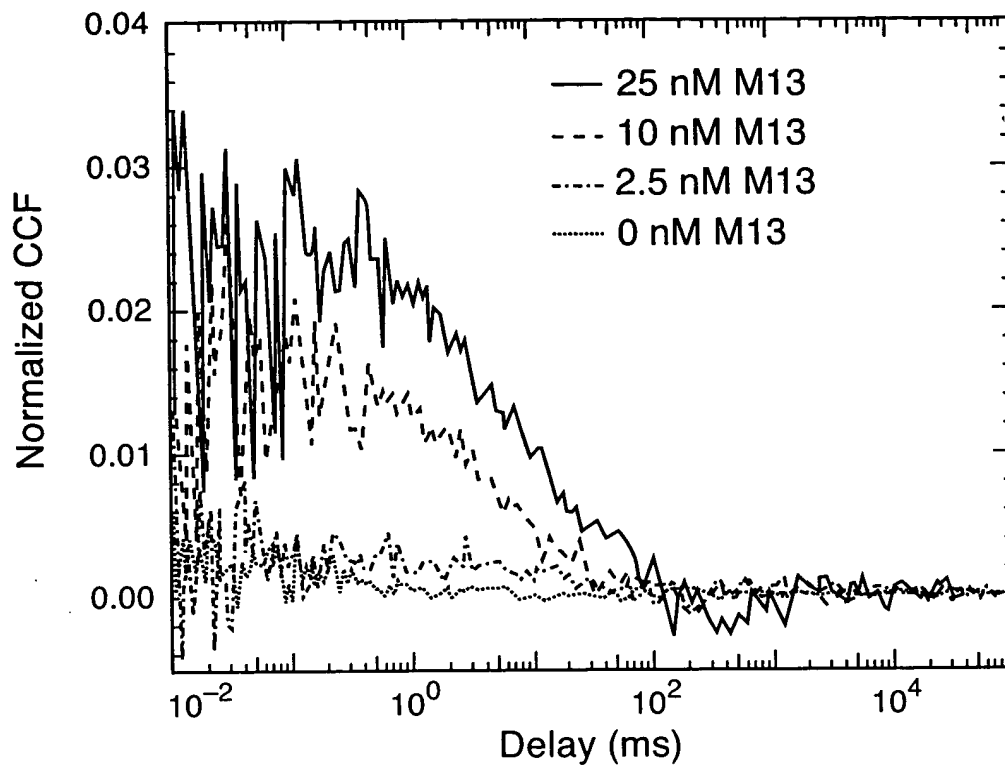
**Fig. 1**



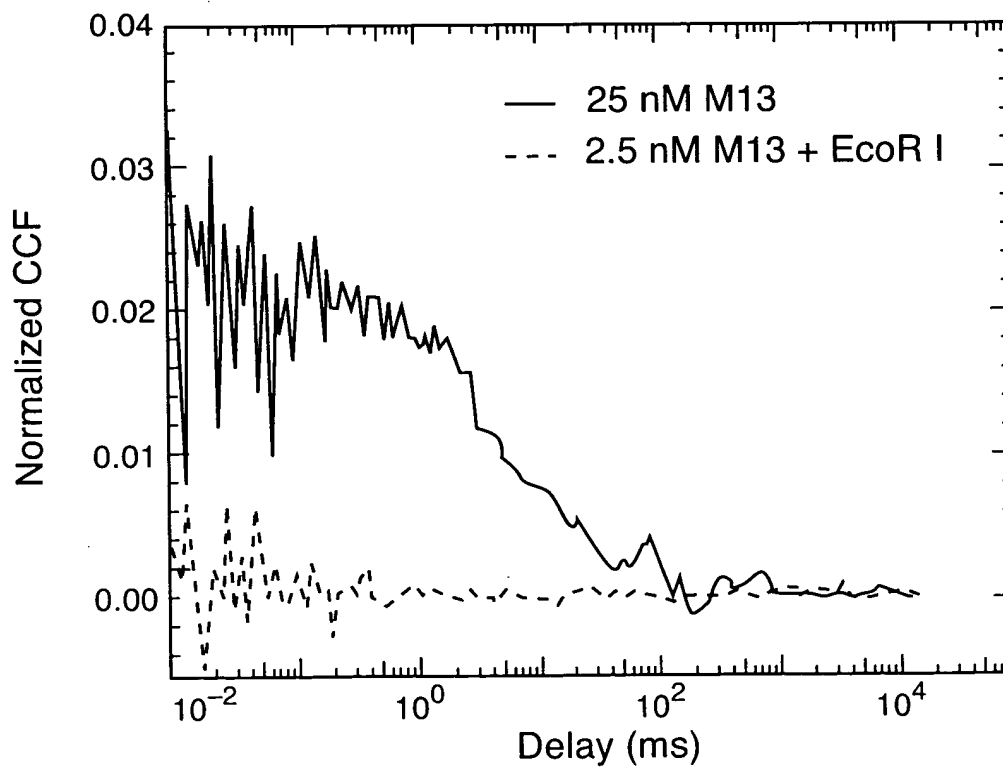
**Fig. 2**



**Fig. 3A**



**Fig. 3B**



**Fig. 3C**